\*.DGN FILE NAME TS-1A

TANDARD PLANS **METRIC** 

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.



### TRAFFIC SIGNAL MAST ARM FOUNDATION - TYPE 1A

# ANCHOR BOLTS SHALL BE



75 mm Ø SIGNAL CONDUIT

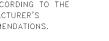
#13A4 @225

SECTION A - A

7 #13A2 SPACED EVENLY (TOP)

7 #13A2 SPACED EVENLY (BOT)

**END ELEVATION** 







75 mm Ø STREET LIGHT CONDUIT

GRANULAR BACKFILL THOROUGHLY COMPACTED

ACCORDING TO

SPECIFICATIONS

CONSTRUCTION JOINT

(IF REQUIRED)

--- C MAST ARM

CONDUIT TO 1.0 SUBSIDIARY

75 mm Ø SIGNAL CONDUIT

25 mm PROJECTION

25 mm CHAMFER

¢ column

``a

700

1500

PLAN

5 #13A1 SPACED EVENLY (TOP)

5 #13A1 SPACED EVENLY (BOT)

**ELEVATION** 

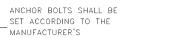
ANCHOR BOLTS AS REQUIRED -

#19A3 L

(PLACE AS SHOWN -

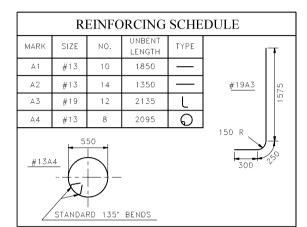
IN SECT. A - A)

#13A2



## GENERAL NOTES (TYPE 1 FOOTING)

- 1. SEE SHEET 2 OF 2 FOR DETAILS OF TYPE 1B & TYPE 1C FOOTINGS.
- 2. ALL REINFORCING STEEL SHALL BE EITHER GRADE 300 OR 400.
- 3. ALL REINFORCING STEEL SHALL BE A MINIMUM 75 mm CLEAR.
- THE TYPE 1 SPREAD FOOTING SHALL BE POURED IN PLACE ON UNDISTURBED MATERIAL. THE MAXIMUM DESIGN SOIL PRESSURE IS 0.15 MPa. IF THE SOIL IS NOT CAPABLE OF A BEARING PRESSURE OF 0.15 MPg, THE ENGINEER SHALL ORDER REMOVAL OF THE WEAK FOUNDATION MATERIAL AND PLACEMENT OF STRUCTURAL FILL, ITEM 508. COST OF ITEM 508 SHALL BE PAID AS EXTRA WORK. IF SUITABLE SOILS ARE NOT FOUND WITHIN A REASONABLE DISTANCE BELOW THE BOTTOM OF THE FOOTING, THE ENGINEER SHALL REQUEST A REDESIGN.
- WHERE LEDGE IS ENCOUNTERED, EXCAVATION SHALL STILL EXTEND TO LIMITS SHOWN.



TYPICAL QUANTITIES PER BASE						
ITEM NO.	DESCRIPTION	QUANTITY				
520.21 *	CONCRETE CLASS B (FTGS)	2.3 m3				
544 *	REINFORCING STEEL	111 kg				
206.1 *	COMMON STRUCTURE EXCAVATION	10 m3				

\* ITEM NUMBERS SHOWN ARE FOR SPECIFICATION REFERENCE ONLY. NO SEPARATE PAYMENT WILL BE MADE FOR THESE ITEMS.

# 12 #19A3 SPACED EVENLY

#19A3 L

#13A1

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS OR METERS

NUMBERS INDICATE METERS UNLESS OTHERWISE NOTED.

WHOLE NUMBERS INDICATE MILLIMETERS; DECIMAL

# STANDARD SPREAD FOOTINGS FOR TRAFFIC SIGNALS

DETERMINATION OF REQUIRED FOOTING SIZE									
FOOTING SIZE	CASE 1 MAX. h=12.0 MAX. h1=7.0			CASE 2 MAX.		h1=7.0			
	SHAPE	MAX. LENGTH OF ONE MAST ARM WITH ONE LUMINAIRE ON THE SAME POLE (L)	MAX. NUMBER OF SIGNALS FOR CASE 1	SHAPE	MAX. LENGTH OF ONE MAST ARM WITH NO LUMINAIRE (L)	MAX. NUMBER OF SIGNALS FOR CASE 2			
TYPE 1A (2.0x1.5x0.6)	44 -	6.0 m	2	h h l	10.0 m	3			
TYPE 1B (2.5x2.0x0.6)	44	10.0 m	3	h l	15.0 m	4			
TYPE 1C (2.5×2.5×0.6)		15.0 m	3						

NOTE: COMBINATIONS OTHER THAN THOSE SHOWN IN THE ABOVE CHART SHALL NOT BE USED WITHOUT DESIGN APPROVAL

## 1 OF

FOUNDATION - TYPE 1A

STANDARD

NO. TS-1A

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, CONCORD, N.H.

**STANDARD** 

NO. TS-1A REVISION DATE

\*.DGN FILE NAME

STANDARD PLANS

METRIC

TS-1A

### TRAFFIC SIGNAL STANDARD

TRAFFIC SIGNAL MAST ARM